

# **APPLICATION OF REMOTE AND MONITORING BASED JAVA REMOTE METHOD INVOCATION**

By  
Agus Setiawan  
NIM. 07520244054

## **ABSTRACT**

This research aims to develop application software of Remote and Monitoring based on Java Remote Method Invocation (RMI). This application software can be used as remote control and monitoring on a connected computer network that is not limited to the operating system used.

This study uses an object-oriented software development and combined with the waterfall software model process which through 4 stages. The first stage, analysis requirement, observation of the application of existing remote system, and the study of literature. Second stage, the design of the system include use case diagrams that illustrate the actors activities of the application and sequence diagrams describe the sequence of execution of applications. Third stages, coding, coding implementation of the design sequence diagrams and test units or more often called white-box testing. Fourth stages, integrated testing includes the black-box testing, alpha testing that will be used to determine the performance of the application, and beta testing to users of the Focus Group Discussion Digital Networks and Multimedia Puskom UNY.

Based on the testing results of software applications Remote and Monitoring based on Java Remote Method Invocation (RMI) indicates that: 1) Application of Remote and Monitoring based Java Remote Method Invocation has been successfully designed, manufactured, and implemented. 2) The performance of the application of of Remote and Monitoring based Java Remote Method Invocation has a good performance all the systems tested can run and work in accordance with the desired specifications. 3) Feasibility of applications Remote and Monitoring based on Java Remote Method Invocation in terms of usability is very feasible with percentage 82,14 %.

Keywords: applications, and remote monitoring, remote system, remote control, Java, Remote Method Invocation